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# NOTICE OF ALLOWANCE AND FEE(S) DUE

35884

7500

07/01/2009

LEE, HONG, DEGERMAN, KANG & WAIMEY 660 S. FIGUEROA STREET Suite 2300 LOS ANGELES. CA 90017

EXAMINER					
WONG, BLANCHE					
ART UNIT	PAPER NUMBER				
2.110					

DATE MAILED: 07/01/2009

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/668,632	09/23/2003	Seung June Yi	2101-3054	2199

TITLE OF INVENTION: RADIO COMMUNICATION SCHEME FOR PROVIDING MULTIMEDIA BROADCAST AND MULTICAST SERVICES (MBMS)

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	10/01/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

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B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

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B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

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							(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR	<b>t</b>	ATTO	RNEY DOCKET NO.	CONFIRMATION NO.
10/668,632	09/23/2003	•	Seung June Yi			2101-3054	2199
TITLE OF INVENTION (MBMS)	N: RADIO COMMUNI	CATION SCHEME FOI	R PROVIDING MULTIN	MEDIA BROADC	AST A	ND MULTICAST SI	ERVICES
APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSU	E FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0		\$1810	10/01/2009
EXAM	IINER	ART UNIT	CLASS-SUBCLASS				
WONG, B	BLANCHE	2419	370-328000	-			
<ol> <li>Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).</li> <li>Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.</li> <li>"Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.</li> </ol>		(1) the names of up to or agents OR, alternatically (2) the name of a sing registered attorney or	e of a single firm (having as a member a ttorney or agent) and the names of up to patent attorneys or agents. If no name is				
PLEASE NOTE: Un recordation as set fort (A) NAME OF ASSI	less an assignee is ident h in 37 CFR 3.11. Comp GNEE	ified below, no assignee eletion of this form is NO	T a substitute for filing an  (B) RESIDENCE: (CIT)	oatent. If an assign assignment. Y and STATE OR C	COUNT	TRY)	ocument has been filed fo
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This collection of inform an application. Confiden submitting the complete this form and/or suggest Box 1450, Alexandria, V Alexandria, Virginia 223	tiality is governed by 35 d application form to the ions for reducing this but /irginia 22313-1450. DC	FR 1.311. The informatic U.S.C. 122 and 37 CFR USPTO. Time will vary den, should be sent to th ONOT SEND FEES OR (	on is required to obtain or 1.14. This collection is es depending upon the indi e Chief Information Offic COMPLETED FORMS T	retain a benefit by timated to take 12 vidual case. Any co er, U.S. Patent and O THIS ADDRES	the pub minutes omment Traden S. SEN	lic which is to file (and to complete, including to on the amount of the nark Office, U.S. Dep D TO: Commissioner	d by the USPTO to process ng gathering, preparing, an me you require to complet artment of Commerce, P.C for Patents, P.O. Box 1450

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10/668,632	09/23/2003	Seung June Yi	2101-3054 2199		
35884 75	590 07/01/2009		EXAM	IINER	
LEE, HONG, DEGERMAN, KANG & WAIMEY			WONG, BLANCHE		
660 S. FIGUEROA STREET Suite 2300 LOS ANGELES, CA 90017		ART UNIT	PAPER NUMBER		
			2419 DATE MAILED: 07/01/200	9	

# **Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)**

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 868 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 868 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)	
	10/668,632	YI ET AL.	
Notice of Allowability	Examiner	Art Unit	
	Blanche Wong	2419	
	, ,		
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED or other appropriate comn (IGHTS. This application is	in this application. If not included nunication will be mailed in due cour	rse. <b>THIS</b>
1. This communication is responsive to <u>RCE filed with IDS or</u>	<u>n June 11, 2009</u> .		
2. X The allowed claim(s) is/are 45-62 (renumbered 1,2,4-10,3	,11-15,17,18,16 respective	<u>(y)</u> .	
<ul> <li>3. ☐ Acknowledgment is made of a claim for foreign priority u</li> <li>a) ☐ All b) ☐ Some* c) ☐ None of the:</li> <li>1. ☐ Certified copies of the priority documents have</li> </ul>		or (f).	
□ Certified copies of the priority documents have		ion No	
3. ☐ Copies of the certified copies of the priority do	• • • • • • • • • • • • • • • • • • • •		from the
International Bureau (PCT Rule 17.2(a)).	de la	sa in this national stage application	
* Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		e a reply complying with the require	ments
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which giv			CE OF
5. CORRECTED DRAWINGS ( as "replacement sheets") mu	st be submitted.		
(a) I including changes required by the Notice of Draftspers	son's Patent Drawing Revie	ew ( PTO-948) attached	
1) 🔲 hereto or 2) 🔲 to Paper No./Mail Date	<u>.</u>		
<ul><li>(b) ☐ including changes required by the attached Examiner Paper No./Mail Date</li></ul>	's Amendment / Comment	or in the Office action of	
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in			k) of
6. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT			the
Attachment(s)	5 Notice of	nformal Datant Application	
<ol> <li>Notice of References Cited (PTO-892)</li> <li>Dotice of Draftperson's Patent Drawing Review (PTO-948)</li> </ol>		nformal Patent Application Summary (PTO-413),	
<ol> <li>Information Disclosure Statements (PTO/SB/08),</li> </ol>	Paper No	./Mail Date s Amendment/Comment	
Paper No./Mail Date <u>Jun11'09</u>			
4. Examiner's Comment Regarding Requirement for Deposit of Biological Material		s Statement of Reasons for Allowan	ce
	9. 🔲 Other	<u> </u>	
	/Ayaz R. She		
	Supervisory P	atent Examiner, Art Unit 2419	

1. Claims 45-62 are allowed.

2. The following is an examiner's statement of reasons for allowance:

With regard to claim 45, the prior art of record fails to anticipate or make obvious a network comprising: "a RLC layer configured to receive data from an upper layer; a MAC layer configured to add a header to the data received from the RLC layer; and a PHY layer configured to receive the header added data from the MAC layer to transmit the header added data to a plurality of terminals via a first downlink physical channel, wherein a second downlink physical channel is provided to transmit control information to the plurality of terminals, wherein the second downlink physical channel comprises TFCI field and a Pilot field to transmit the control information, wherein the controller is a CRNC comprising the RLC layer and the MAC layer, and the base station comprises the PHY layer, wherein the MAC layer comprises a first MAC sub-layer handling a dedicated transport channel and a second MAC sub-layer handling a common or shared transport channel, and the received data is transferred directly from the RLC layer to the second MAC sub-layer, wherein the data is MBMS data, wherein the second MAC sub-layer is capable to support the MBMS service, and wherein the RLC layer operates in a non-responsive mode."

With regard to claim 55, the prior art of record fails to anticipate or make obvious a terminal comprising: "[1] a PHY layer of the terminal configured to receive data via a first downlink physical channel and control information via a second downlink physical

Application/Control Number: 10/668,632

Art Unit: 2419

channel, wherein the PHY layer of the terminal is further configured to receive TFCI information and Pilot information via the second downlink physical channel, wherein the data and the control information are transmitted from a network comprising a CRNC and a base station, wherein the CRNC comprises a RLC layer of the network and a MAC layer of the network, and the base station comprises a PHY layer of the network, wherein the MAC layer of the network comprises a first MAC sub-layer handling a dedicated transport channel and a second MAC sub-layer handling a common or shared transport channel, and the data is transferred directly from the RLC layer of the network to the second MAC sub-layer, wherein the data is MBMS data, wherein the second MAC sub-layer is capable to support the MBMS service, and wherein the RLC layer of the network operates in a non-responsive mode; [2] a MAC layer of the terminal configured to receive the data from the PHY layer of the terminal; and [3] a RLC layer of the terminal configured to receive the data from the MAC layer of the terminal."

Page 3

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Blanche Wong whose telephone number is 571-272-3177. The examiner can normally be reached on Monday through Friday, 830am to 530pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ayaz Sheikh can be reached on 571-272-3795. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Blanche Wong/ Examiner, Art Unit 2419 June 20, 2009 /Ayaz R. Sheikh/ Supervisory Patent Examiner, Art Unit 2419